ITEM: 19

SUBJECT: Uncontested NPDES Permits

REPORT: Following are the proposed permits. All agencies and the dischargers concur or have offered no comments.

a. **AEROJET-GENERAL CORPORATION, INTERIM GROUNDWATER EXTRACTION AND TREATMENT SYSTEMS, ARGET, GET E/F, GET H, INTERIM GET H, GET J, GET K, INTERIM GET K, GET L, GET L1, SAILOR BAR PARK WELL, CHETTENHAM WELL, AND LOW-THREAT DISCHARGES, Sacramento County**

Aerojet-General Corporation operates a rocket-testing and chemical manufacturing facility in eastern Sacramento County. Past practices at the facility has led to pollution of the groundwater on and off the Aerojet property. In the process of cleaning up the polluted groundwater, Aerojet extracts and treats the groundwater. The water is discharged to ground, to surface water and injected back into the aquifers. The discharges to surface water are currently at seven locations under an NPDES permit. Aerojet is expanding and modifying its groundwater extraction and treatment systems. These modifications include the construction of 3-5 new treatment systems. The permit is proposed for revision to allow the new treatment plants and additional discharge location. Effluent limitations are nearly identical to the previous permit. The exceptions are the reduction in the perchlorate effluent limit at the ARGET facility to match the remaining treatment system's effluent limits, and a temporary change in the effluent limitation for NDMA for GET J. The former reduces the effluent limitation to 4 µg/L as perchlorate treatment is added to ARGET to treat new extraction wells containing perchlorate. The latter is to allow the evaluation of treatment systems to provide the necessary treatment to reduce NDMA to 0.002 µg/L as the current treatment system is not providing consistent reduction to that value. The revised permit allows up to 0.008 µg/L NDMA in the effluent from GET J until January 2008. Mixing of the GET J, ARGET and GET E/F in Buffalo Creek keeps the concentration of NDMA in Buffalo Creek below 0.002 µg/L and perchlorate below 4 µg/L, their respective Water Quality Objectives. (AMM)

b. **THE BOEING COMPANY, SOUTHERN GROUNDWATER STUDY AREA GROUNDWATER EXTRACTION AND TREATMENT SYSTEM, INACTIVE RANCHO CORDOVA TEST SITE, Sacramento County**

The Boeing Company (Boeing) operated a rocket-testing facility in eastern Sacramento County near Rancho Cordova and Folsom. The facility is on property known as the Inactive Rancho Cordova Test Site (IRCTS) that is currently owned by the Aerojet-General Corporation

(Aerojet). Boeing, along with Aerojet, performed practices that have caused the release of pollutants into the vadose zone and groundwater at the IRCTS. The primary pollutants are trichloroethylene (TCE) and perchlorate. Boeing and Aerojet have investigated the pollution at the IRCTS and have proposed to extract groundwater and remove the pollutants to stop the spread of the pollution and restore the aquifer to beneficial uses. Four groundwater extraction wells have been installed as the initial extraction system. The pollutants will be treated using activated carbon to remove the TCE and ion-exchange to remove the perchlorate to below levels of concern, 0.5 micorgrams per liter (µg/L) for TCE and 4 µg/L for perchlorate. Treated groundwater will be discharged to Morrison Creek, injected back into the groundwater, and provided to the development south and north of Douglas Road for dust control and compaction during construction. If necessary, the system will be expanded at a later date to provide full capture of the pollution. (AMM)

c. **THE BOEING COMPANY, GROUNDWATER EXTRACTION AND TREATMENT SYSTEMS – EX-5 AND GET H-B, INACTIVE RANCHO CORDOVA TEST SITE, Sacramento County**

The Boeing Company (Boeing) operated a rocket-testing facility in eastern Sacramento County near Rancho Cordova and Folsom. The facility is on property known as the Inactive Rancho Cordova Test Site (IRCTS) that is currently owned by the Aerojet-General Corporation (Aerojet). Boeing, along with Aerojet, performed practices that have caused the release of pollutants into the vadose zone and groundwater at the IRCTS. The primary pollutants are trichloroethylene (TCE) and perchlorate. Boeing and Aerojet have investigated the pollution at the IRCTS and have proposed to extract groundwater and remove the pollutants to stop the spread of the pollution and restore the aquifer to beneficial uses. Several groundwater extraction wells have been installed on Mather Field to control the leading edge of the plume. The pollutants will be treated at two treatment systems using activated carbon to remove the TCE and ion-exchange to remove the perchlorate to below levels of concern, 0.5 micorgrams per liter (µg/L) for TCE and 4 µg/L for perchlorate. Treated groundwater will be discharged to on-site drainage channels to Morrison Creek. If necessary, the system will be expanded at a later date to provide full capture of the pollution. (AMM)

d. **THE VENDO COMPANY, GROUNDWATER REMEDIATION SYSTEM, Fresno County**

The Vendo Company operates a groundwater cleanup system in the Pinedale area of Fresno. Groundwater contaminated with metals and volatile organic compounds is treated using a granular activated carbon treatment system and discharged to Bullard Canal, which is tributary to the San Joaquin River, a water of the United States. The proposed

Order renews NPDES Permit No. CA0083046 and includes effluent limits that implement best practicable treatment and control. The action to adopt the proposed Order is exempt from CEQA, in accordance with the California Water Code. (MSS)

RECOMMENDATION: Adopt the proposed NPDES permits.

Mgmt Review_____
Legal Review _____

Central Valley Regional Water Quality Control Board
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26 January 2006